

Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended): A system for testing a web location including a web site or web service comprising a processor executing:

a test generator for generating an XML test case; and

a driver for interpreting the XML test case into an http request to be sent to the web location, said driver comprising:

a parsing engine for parsing the XML test case into a sequence of requests/response pairs; and

a runtime engine for providing to the web location the http request corresponding to the sequence of requests/response pairs wherein the runtime engine includes instructions for identifying dynamic data in the request/response pairs received from the parsing engine; instructions for evaluating the identified dynamic data for a result; instructions for replacing the evaluated result to generate a replaced request.

Claim 2 (canceled).

Claim 3 (currently amended): The system of claim 2-1 wherein said runtime engine receives from the web location an http response corresponding to the http request and retrieves, validates, and stores data in the http response, said retrieved, validated, and stored data being indicative of an operational status of the web location.

Claim 4 (currently amended): The system of claim 3 wherein the parsing engine comprises:

instructions for identifying components in the XML test case wherein the XML test case is received from the test generator ~~or created by a user~~;

instructions for identifying ~~the~~ configuration data of the components; and

instructions for replacing the identified configuration data in the request to be sent to the web location to be tested.

Claim 5 (original): The system of claim 3 wherein the parsing engine comprises:

instructions for identifying any sequence of request/response pairs in the XML test case received from the test generator or user input;

instructions for determining if each identified request is a simple request or a composite of other requests and for reducing a composite request to a plurality of simple requests;

for each simple request/response pair, instructions for identifying a data structure of the simple request/response pair;

instructions for identifying aspects of the request data structure which include configuration data; and

instructions for replacing the identified configuration data in the request to be sent to the web location to be tested and outputting the resulting sequence of request/response pairs.

Claim 6 (original): The system of claim 5 wherein the data structure includes the elements of an http request including the following: a URL, a path, query string parameters, post data, and a verb.

Claim 7 (currently amended): The system of claim 5 wherein the runtime engine comprises: instructions for identifying dynamic data in the request/response pairs received from the parsing engine;

instructions for replacing the identified dynamic data to generate a replaced request;

instructions for creating an http request from the data in the replaced request;

instructions for instantiating ~~the~~an http engine; and

instructions for sending the http request to the web location.

Claim 8 (original): The system of claim 7 further comprising:

instructions for receiving from the web location an http response to the corresponding http request;

instructions for identifying the location and data to be retrieved from the http response regarding the operability of the web location; and

instructions for retrieving, validating, and storing the identified location and data.

Claim 9 (currently amended): The system of claim ~~2~~1 wherein the runtime engine further comprises:

~~instructions for identifying dynamic data in the request/response pairs received from the parsing engine;~~

~~instructions for replacing the identified dynamic data to generate a replaced request;~~

instructions for creating an http request from the data in the replaced request;

instructions for instantiating an http engine; and

instructions for sending the http request to the web location.

Claim 10 (original): The system of claim 9 further comprising:

instructions for receiving from the web location an http response to the corresponding http request;

instructions for identifying the location and data to be retrieved from the http response regarding the operability of the web location; and

instructions for retrieving, validating, and storing the identified location and data.

Claim 11 (original): The system of claim 1 wherein the test case includes at least one of the following tags: dynamic user names, parameters specific to the test case and retrieved from a configuration file corresponding to the web location, and optional tags.

Claim 12 (original): The system of claim 1 further comprising instructions for at least one of the following: handling cookies, manipulating data, supporting XML parameters, sending hidden fields, inserting random parameters, and using use case attributes.

Claim 13 (original): The system of claim 1 wherein the XML test case has a data structure comprising elements of an http request including the following: a URL, a path, query string parameters, post data, and a verb.

Claim 14 (currently amended): A method of testing a web location including a web site or web service comprising:

generating a test case in XML format; ~~and~~

interpreting the XML test case into a http request to be sent to the web location;
parsing the XML test case into a sequence of request/response pairs;
identifying dynamic data in the request/response pairs;
evaluating the identified dynamic data for a result;
replacing the evaluated result to generate a replaced request; and
providing to the web location the http request corresponding to the sequence of
request/response pairs.

Claim 15 (canceled).

Claim 16 (currently amended): The method of claim ~~15~~14 wherein the parsing comprises:

identifying components in the XML test case received from the test generator ~~or created~~
~~by a user;~~

identifying ~~the~~ configuration data of the components; and

replacing the identified configuration data in the request to be sent to the web location to
be tested.

Claim 17 (currently amended): The method of claim ~~15~~14 wherein the parsing comprises:

identifying any sequence of request/response pairs in the XML test case received from
the test generator or user input;

determining if each identified request is a simple request or a composite of other requests
and for reducing a composite request to a plurality of simple requests;

for each simple request/response pair, identifying a data structure of the simple
request/response pair;

identifying aspects of the request data structure which include configuration data; and

replacing the identified configuration data in the request to be sent to the web location to
be tested and outputting the resulting sequence of request/response pairs.

Claim 18 (original): The method of claim 17 wherein the data structure includes the elements of
an http request including the following: a URL, a path, query string parameters, post data, and a
verb.

Claim 19 (currently amended): The method of claim 18 wherein providing to the web location the http request comprises:

- identifying dynamic data in the request/response pairs received from the parsing engine;
- replacing the identified dynamic data to generate a replaced request;
- creating an http request from the data in the replaced request;
- instantiating ~~the~~ an http engine; and
- sending the http request to the web location.

Claim 20 (original): The method of claim 19 further comprising:

- receiving from the web location an http response to the corresponding http request;
- identifying the location and data to be retrieved from the http response regarding the operability of the web location; and
- retrieving, validating, and storing the identified location and data.

Claim 21 (currently amended): The method of claim ~~15~~ 14 wherein providing to the web location the http request comprises:

- ~~identifying dynamic data in the request/response pairs received from the parsing engine;~~
- ~~replacing the identified dynamic data to generate a replaced request;~~
- creating an http request from the data in the replaced request;
- instantiating an http engine; and
- sending the http request to the web location.

Claim 22 (original): The method of claim 21 further comprising:

- receiving from the web location an http response to the corresponding http request;
- identifying the location and data to be retrieved from the http response regarding the operability of the web location; and
- retrieving, validating, and storing the identified location and data.

Claim 23 (original): The method of claim 14 further comprising receiving from the web location an http response corresponding to the http request and retrieving, validating and storing data

from the http response wherein said retrieved, validated and stored data is indicative of an operational status of the web location.

Claim 24 (original): The method of claim 14 wherein the test case includes at least one of the following tags: dynamic user names, parameters specific to the test case and retrieved from a configuration file corresponding to the test case, and optional tags.

Claim 25 (original): The method of claim 14 further comprising at least of the following in conjunction with the generating of the XML test case: handling cookies, manipulating data, supporting XML parameter, sending hidden fields, inserting random parameters, and using use case attributes.

Claim 26 (canceled).

Claim 27 (currently amended): A method of testing a plurality of web locations connected by a multi-site user authentication system according to an XML test case comprising:

- generating a specific XML test case associated with the web locations;
- parsing the XML test case into a sequence of request/response pairs; and
- sending each of the http requests to the corresponding web locations, said sending comprising:
 - identifying dynamic data in the request/response pairs received from the parsing engine;
 - evaluating the identified dynamic data for a result; and
 - replacing the evaluated result to generate a replaced request.

Claim 28 (original): The method of claim 27 further comprising receiving from each of the web locations an http response corresponding to the http request sent to the location and retrieving, validating, and storing data from the http response wherein said retrieved, validated, and stored data is indicative of an operational status of the web location.

Claim 29 (currently amended): The method of claim 27 wherein parsing the XML test case comprises:

- identifying components in the XML test case received from the test generator ~~or created by a user~~;
- identifying ~~the~~ configuration data of the components; and
- replacing the identified configuration data in the request to be sent to the web location to be tested.

Claim 30 (original): The method of claim 27 wherein parsing the XML test case comprises:

- identifying any sequence of request/response pairs in the XML test case received from the test generator or user input;
- determining if each identified request is a simple request or a composite of other requests and for reducing a composite request to a plurality of simple requests;
- for each simple request/response pair, identifying a data structure of the simple request/response pair;
- identifying aspects of the request data structure which include configuration data; and
- replacing the identified configuration data in the request to be sent to the web location to be tested and outputting the resulting sequence of request/response pairs.

Claim 31 (original): The method of claim 30 wherein the data structure includes the elements of an http request including the following: a URL, a path, query string parameters, post data, and a verb.

Claim 32 (currently amended): The method of claim 27 wherein sending each of the http requests comprises:

- ~~identifying dynamic data in the request/response pairs received from the parsing engine;~~
- ~~replacing the identified dynamic data to generate a replaced request;~~
- creating an http request from the data in the replaced request;
- instantiating ~~the~~ an http engine; and
- sending the http request to the web location.

Claim 33-34 (canceled).

Claim 35 (currently amended): The method of claim ~~34~~32 further comprising:

receiving from the web location an http response to the corresponding http request;
identifying the location and data to be retrieved from the http response regarding the operability of the web location; and
retrieving, validating, and storing the identified location and data.

Claim 36 (currently amended): A computer readable medium (CRM) having instructions for testing a web location including a web site or web service comprising:

instructions for generating an XML test case; and
instructions for interpreting the XML test case into an http request to be sent to the web location,
said instructions for comprising:

instructions for parsing the XML test case into a sequence of request/response pairs;
instructions for identifying dynamic data in the request/response pairs received from the parsing engine;
instructions for evaluating the identified dynamic data for a result; and
instructions for replacing the evaluated result to generate a replaced request.

Claim 37 (currently amended): The CRM of claim 36 further comprising:

~~instructions for parsing the XML test case into a sequence of request/response pairs; and~~
instructions for providing to the web location the http request corresponding to the sequence of requests /response pairs.

Claim 38 (original): The CRM of claim 36 further comprising instructions for receiving from the web location an http response corresponding to the http request and instructions for retrieving, validating, and storing data from the http response wherein said retrieved, validated, and stored data is indicative of an operational status of the web location.

Claim 39 (original): The CRM of claim 36 wherein the test case includes at least one of the following tags: dynamic user names, parameters specific to the test case and retrieved from a configuration file corresponding to the test case, and optional tags.

Claim 40 (original): The CRM of claim 36 further comprising at least one of the following in conjunction with the instructions for generating of the XML test case: instructions for handling cookies, instructions for manipulating data, instructions for supporting XML parameter, instructions for sending hidden fields, instructions for inserting random parameters, and instructions for using use case attributes.